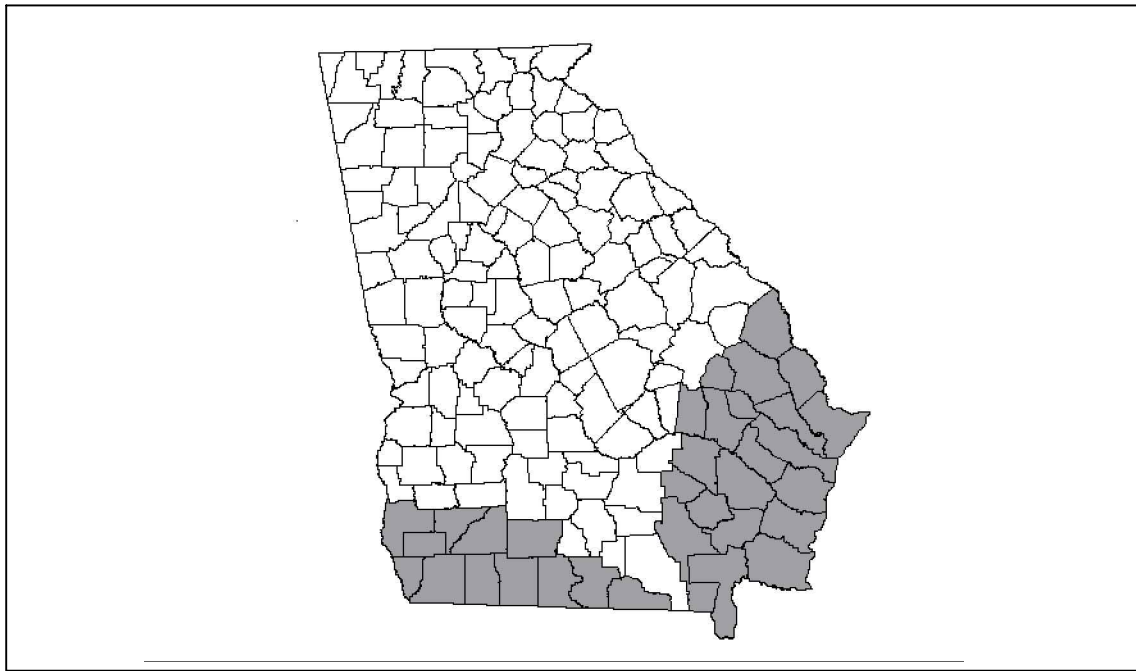


UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE

GEORGIA STANDARD DRAWINGS - 20 FOOT SIDE SHED COMPOST FACILITY  
CONSTRUCTED WITH 8" X 8" POSTS SPACED 10' O.C. AND ENGINEERED  
TRUSSES SPACED 5' O.C. MAXIMUM POST HEIGHT IS 12 FEET.

1. THE FOLLOWING DRAWINGS WERE PREPARED IN ACCORDANCE WITH PRACTICE CODE 316 – ANIMAL MORTALITY FACILITY AND GEORGIA BUILDING CODE (INTERNATIONAL BUILDING CODE 2006).
2. DESIGN DATA REQUIRED BY IBC 2006:
- A) ROOF LIVE LOAD – 19 PSF.
  - B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEEDS OF 100 MPH AND NO SNOW LOAD.
  - C) IMPORTANCE FACTOR,  $I = 0.87$ .
  - D) WIND EXPOSURE CATEGORY C, PARTIALLY ENCLOSED STRUCTURE.
  - E) INTERNAL PRESSURE COEFFECIENT = 0.55.
3. THIS SET OF DRAWINGS IS NOT COMPLETE. THESE DRAWINGS CONSIST OF THE COMPOST PORTION OF THE FACILITY. THESE PLANS SHALL BE ATTACHED TO GEORGIA STANDARD DRAWINGS GA-ENG-313-PS1.PDF
4. ENGINEERED TRUSSES SHALL BE DESIGNED TO SUSTAIN THE ABOVE LISTED CONDITIONS. ONE COPY OF THESE DRAWINGS, DRAWING GA-ENG-313-PS1 AND FORM GA-ENG-317E SHALL BE SUBMITTED TO THE TRUSS DESIGNER. THE TRUSS DESIGN DRAWING FROM THE TRUSS COMPANY MUST BE REVIEWED AND APPROVED BY NRCS.
5. THIS DESIGN IS NOT INTENDED FOR USE IN EXTREME SOUTH AND EAST COUNTIES OF THE STATE THAT ARE SUBJECT TO HURRICANE WIND LOADS (SEE MAP BELOW).
6. THIS DESIGN IS NOT INTENDED FOR CONSTRUCTION ON AN ISOLATED HILL, RIDGE, OR ESCARPMENT IN ANY REGION OF THE STATE.
7. ANY CHANGES TO THESE DRAWINGS MUST BE APPROVED BY AN ENGINEER WITH JOB APPROVAL LEVEL IV OR GREATER.
8. NO ADDITIONS SHOULD BE MADE TO STRUCTURE WITHOUT APPROVAL FROM NRCS. APPROVED DESIGNS FROM NRCS MAY BE USED OR DESIGNS APPROVED BY A GEORGIA REGISTERED PROFESSIONAL ENGINEER.



THIS DESIGN IS NOT INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE WIND LOADS SHADED GRAY ABOVE.

COMPOST FACILITY  
COUNTY, GEORGIA

PRE-CONSTRUCTION CERTIFICATION:

THE \_\_\_\_\_ COMPOSTING FACILITY HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE CODE 316. ALL CHANGES HAVE BEEN APPROVED BY AN ENGINEER WITH JOB APPROVAL AUTHORITY LEVEL IV OR GREATER. ALL ADDITIONS HAVE BEEN APPROVED BY NRCS.

OWNER	DATE	NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
-------	------	---------------------	------	------------------------	------

AS-BUILT CERTIFICATION:

THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE TO THESE PLANS AND MEETS NRCS STANDARDS AND SPECIFICATIONS.

NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
---------------------	------	------------------------	------

COMPOSTING FACILITY:

JOB CLASS: \_\_\_\_\_

INDEX TO DRAWINGS:

- SHEET 1 - COVER SHEET
- SHEET 2 - GENERAL NOTES  
ELEVATION VIEW  
FIBER REINFORCED CONTRACTION JOINT DETAIL  
WOOD TREATMENT TABLE
- SHEET 3 - PLAN VIEW
- SHEET 4 - SIDE VIEW  
SIDE SHED ELEVATION VIEW  
CONCRETE POST FOOTING DETAIL  
MECHANICAL ANCHOR CONCRETE POST FOOTING DETAIL
- SHEET 5 - 8" X 8" POST CONNECTION DETAILS  
SIDEWALL  
GIRDER TO POST CONNECTION  
HURRICANE STRAP (WITH POST)  
HURRICANE STRAP (WITHOUT POST)
- SHEET 6 - SIDE SHED CONNECTION DETAILS  
GIRDER AND RAFTER TO POST CONNECTIONS  
HURRICANE CLIP  
HURRICANE STRAP



REVISIONS			
DATE	APPROVED	TITLE	
09/05	H. MCFARLAND	STATE ENGINEER	
10/07	H. MCFARLAND	STATE ENGINEER	
06/11	J. HOLLOWAY	STATE ENGINEER	
07/13	D. ROBERTS	ACTING STATE ENGINEER	

THE NATURAL RESOURCES CONSERVATION SERVICE  
HELPING PEOPLE HELP THE LAND

Date	07/07
Designed	W. Brown
Drawn	S. Rogers
Checked	H. McFarland
Approved	J. Holloway
	H. McFarland

GEORGIA COMPOST FACILITY  
(20-Foot Side Shed Composting Facility)



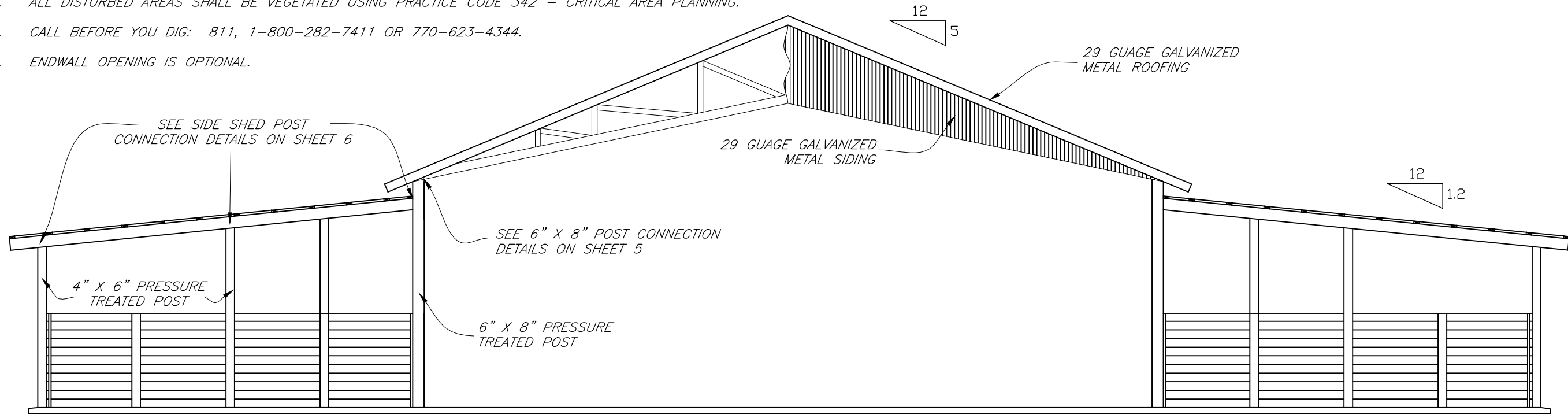
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Drawing No.  
Cover

July 2013  
Sheet 1 of 6

GENERAL NOTES:

1. THE BUILDING SITE SHALL BE CLEARED AND GRUBBED AS REQUIRED. PROPER DRAINAGE SHALL BE PROVIDED AROUND THE ENTIRE BUILDING SO THAT RUNOFF WATER DOES NOT ENTER OR POND NEAR BUILDING. DESIGN FOR ROOF RUNOFF IN ACCORDANCE WITH PRACTICE CODE 558 – ROOF RUNOFF MANAGEMENT OR STABILIZE SOIL AROUND BUILDING USING PRACTICE CODE 342 – CRITICAL AREA PLANTING.
2. CONCRETE FLOORS AND FOOTINGS SHALL BE PLACED ON FIRM SOIL. ALL LOOSE SOIL SHALL BE REMOVED. IF FILL MATERIAL IS USED, PLACE IN 9" THICK LAYERS AND COMPACT WITH SHEEPSFOOT ROLLER OR OTHER EQUIVALENT COMPACTION METHOD.
3. ALL POSTS SHALL BE SET IN CONCRETE WITH CONCRETE OR GRAVEL FOOTING PAD (SEE CONCRETE POST FOOTING DETAIL ON SHEET 4).
4. ALL ENTRANCE AREAS SHALL BE STABILIZED USING PRACTICE STANDARD 561 – HEAVY USE AREA.
5. TRUSSES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN GEORGIA AND WILL BE INSTALLED AS DESIGNED. DESIGNS STAMPED BY A PROFFESIONAL ENGINEER SHALL BE PROVIDED TO NRCS FOR REVIEW.
6. ALL LUMBER, INCLUDING THE POSTS, IN CONTACT WITH LITTER, COMPOST, OR CONCRETE SHALL BE PRESSURE TREATED (SEE WOOD TREATMENT TABLE ON SHEET 4).
7. ALL DIMENSION LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
8. ALL NAILS, BOLTS, AND OTHER CONNECTORS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. NAILS SHALL HAVE SPIRALED OR RINGED (ANNULAR) SHANKS. ALL REFERENCES TO "GALVANIZED" IN THIS SET OF DRAWINGS REFERS TO THE ABOVE LISTED COATINGS.
9. ROOFING SHALL BE 29 GUAGE GALVANIZED METAL. INSTALL ACCORDING TO MANUFACTURER SPECIFICATIONS. SEALANT SHALL BE APPLIED TO ALL LAPS ON SIDE SHEDS.
10. TRUSS BRACING SHALL BE COMPLETED IN ACCORDANCE WITH THE TRUSS DESIGN DRAWING PROVIDED BY THE TRUSS MANUFACTURER AND THE ATTACHED DRAWING "ga-eng-313-ps1.pdf".
11. POWER SUPPLY TO THE BUILDING IS RECOMMENDED FOR NIGHT OPERATIONS AND REPAIR WORK.
12. ON SITE WATER SOURCE IS NECESSARY TO MAINTAIN WATER CONTENT OF COMPOST.
13. ALL DISTURBED AREAS SHALL BE VEGETATED USING PRACTICE CODE 342 – CRITICAL AREA PLANNING.
14. CALL BEFORE YOU DIG: 811, 1-800-282-7411 OR 770-623-4344.
15. ENDWALL OPENING IS OPTIONAL.



ELEVATION VIEW

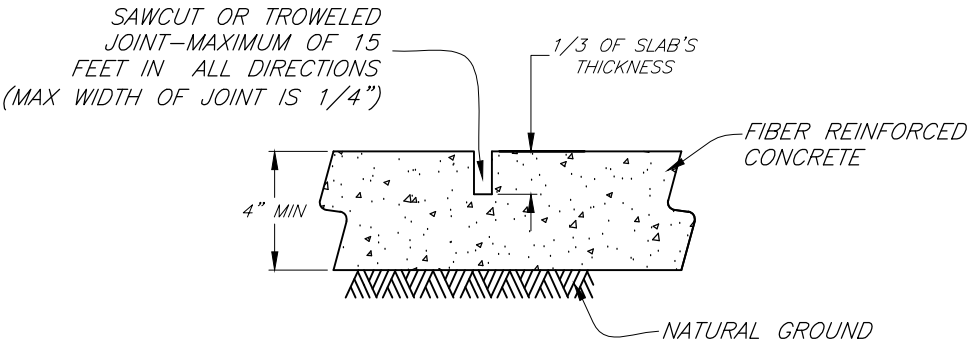
WOOD TREATMENT TABLE

MINIMUM RETENTION RATES IN PCF					
USE	CCA	ACQ-C/D	CBA-A	CA-B	MCA
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21	0.15
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31	0.23

CCA - CHROMATED COPPER ARSENATE  
ACQ-C/D - ALKALINE COPPER QUATERNARY  
CBA-A & CA-B - COPPER AZOLE  
MCA - MICRONIZED COPPER AZOLE

NOTES:

1. ALL WOODEN WALLS, HALF POSTS, AND BIN FRONT WOOD SHALL MEET THE GROUND CONTACT RATES.
2. ALL SUPPORT POSTS SHALL MEET THE IMPORTANT STRUCTURAL MEMBER RATES.



FIBER REINFORCED CONTRACTION JOINT

REVISIONS		
DATE	APPROVED	TITLE
09/05	H MCFARLAND	STATE ENGINEER
10/07	H MCFARLAND	STATE ENGINEER
10/10	J HOLLOWAY	STATE ENGINEER
07/13	D ROBERTS	ACTING STATE ENGINEER

Date	07/07
Designed	W. Brown
Drawn	S. Rogers
Checked	H. McFarland
Approved	J. Holloway
	H. McFarland

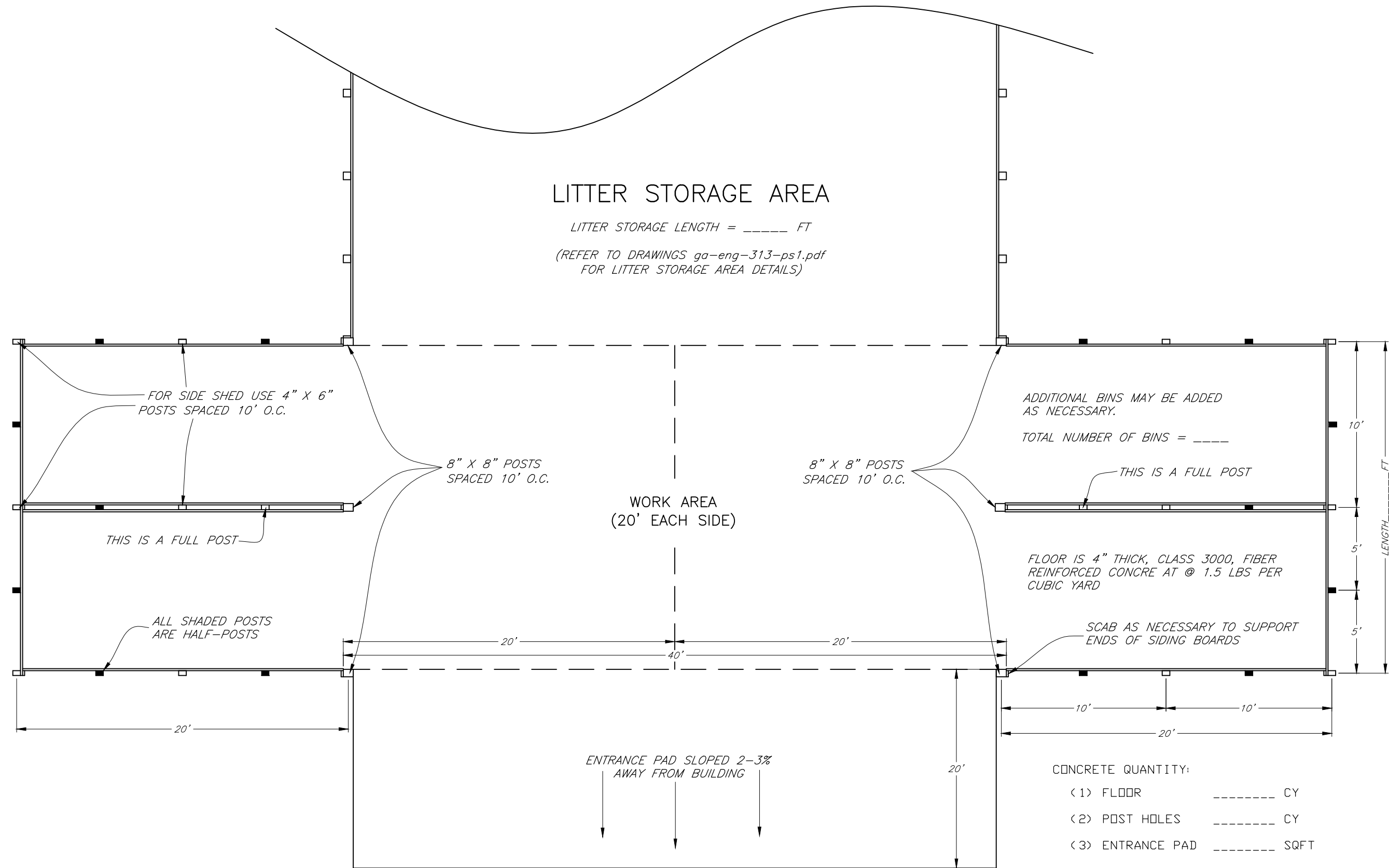
GEORGIA COMPOST FACILITY  
(20-Foot Side Shed Composting Facility)



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Drawing No.  
Elevation

July 2013  
Sheet 2 of 6



PLAN VIEW

REVISIONS		
DATE	APPROVED	TITLE
09/05	H. MCFARLAND	STATE ENGINEER
10/07	H. MCFARLAND	STATE ENGINEER
07/13	D. ROBERTS	ACTING STATE ENGINEER

Designed	W. Brown	Date	07/07
Drawn	S. Rogers		10/07
Checked	H. McFarland		07/07
Approved	J. Holloway		10/07
	H. McFarland		

GEORGIA COMPOST FACILITY  
(20-Foot Side Shed Composting Facility)

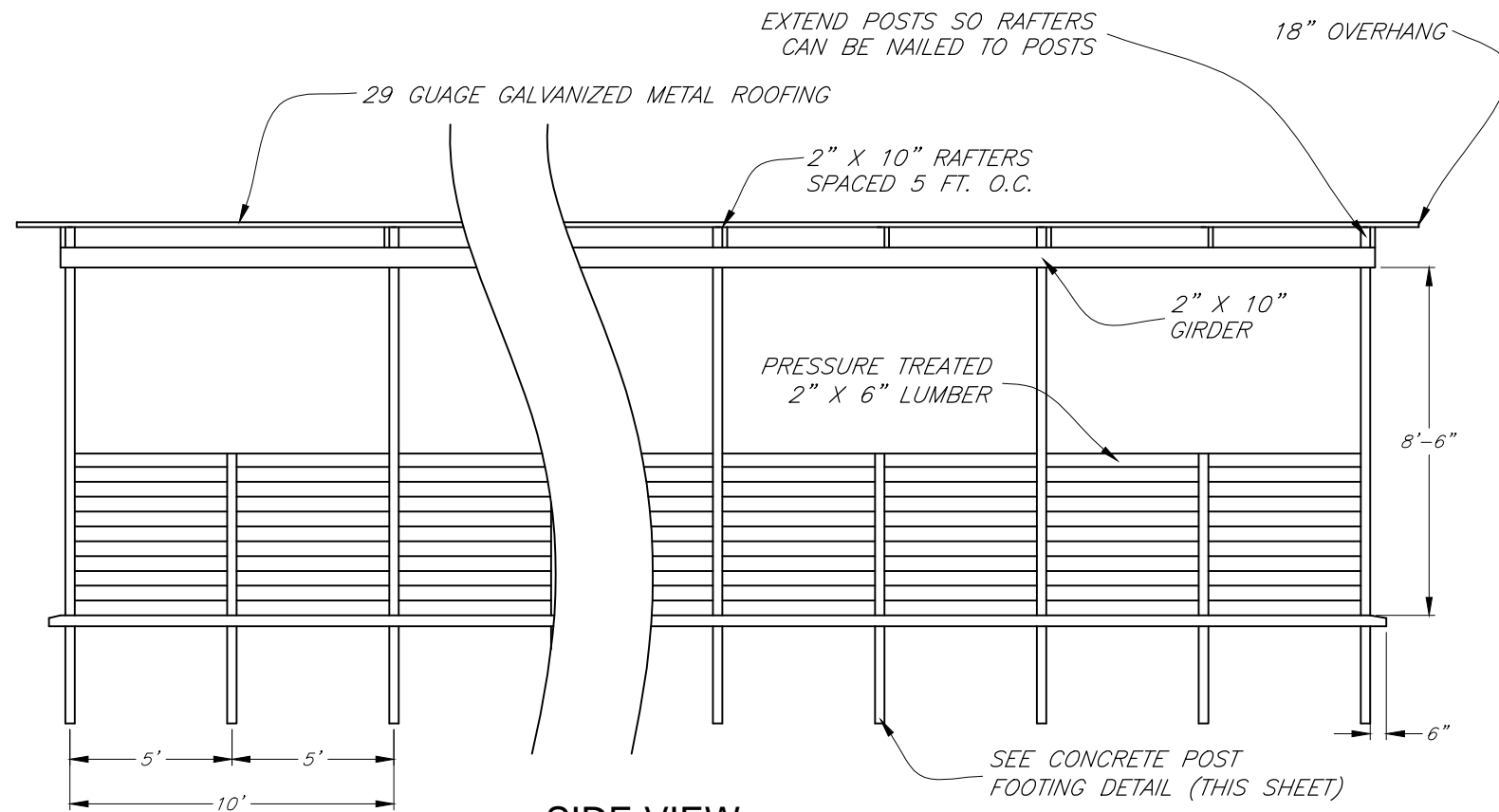
County, GA



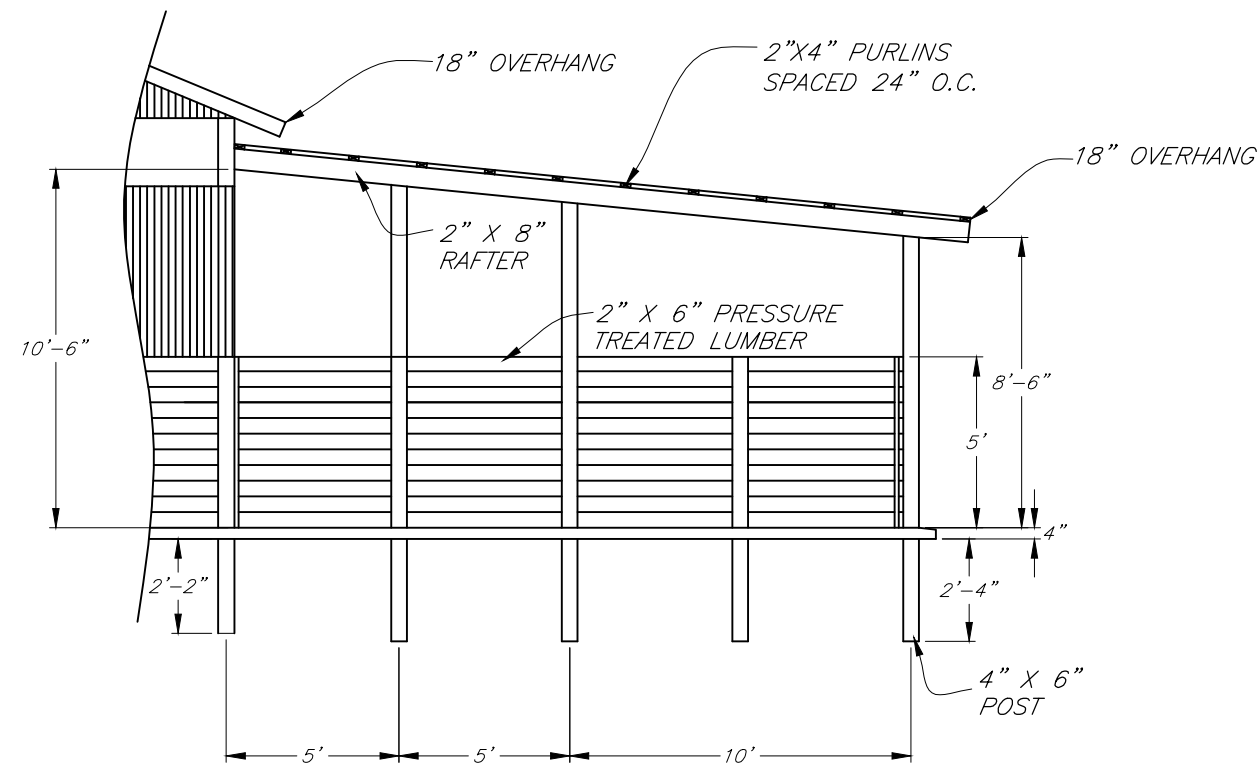
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Drawing No.  
Plan

July 2013  
Sheet 3 of 6



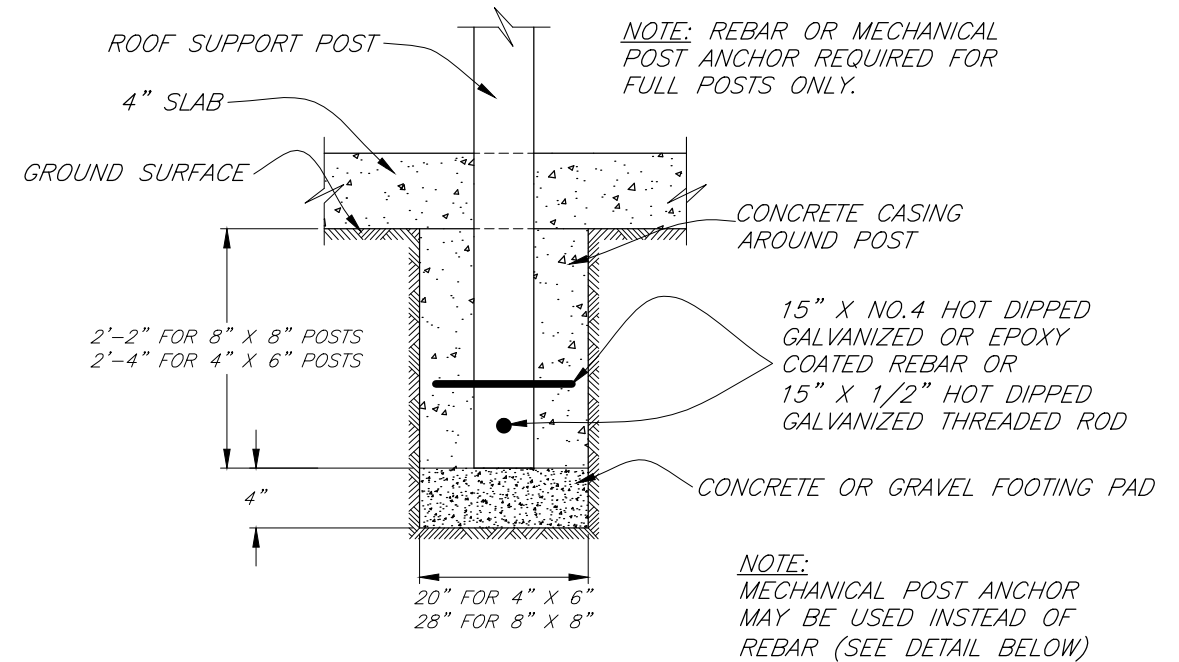
**SIDE VIEW**



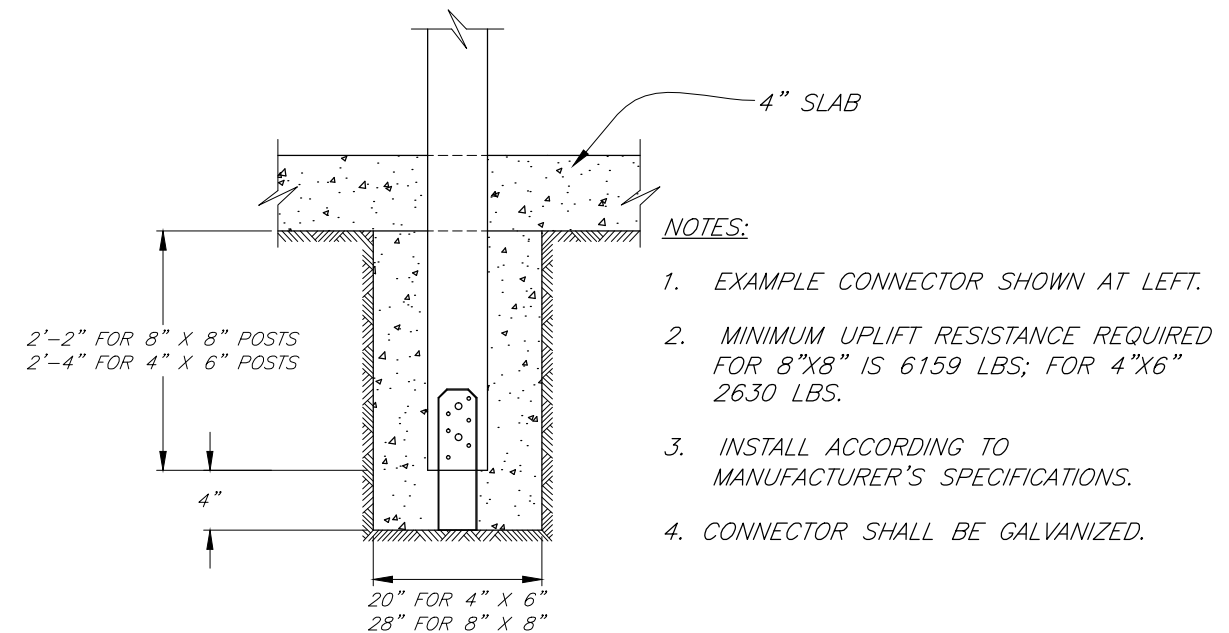
**SIDESHED ELEVATION VIEW**

**CONCRETE QUANTITY**

- (1) PER 6" X 8" POST HOLE: 0.38 CY
- (2) PER 4" X 6" POST HOLE: 0.20 CY



**CONCRETE POST FOOTING DETAIL**



**MECHANICAL POST ANCHOR  
CONCRETE FOOTING DETAIL**

REVISIONS		
DATE	APPROVED	TITLE
08/05	H. MCFARLAND	STATE ENGINEER
10/07	H. MCFARLAND	STATE ENGINEER
07/13	D. ROBERTS	ACTING STATE ENGINEER

Date	07/07
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	H. McFarland

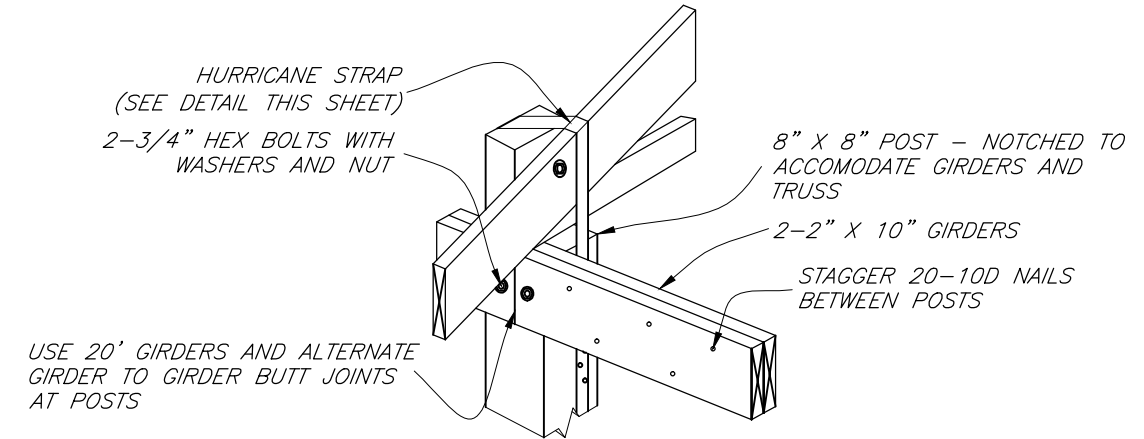
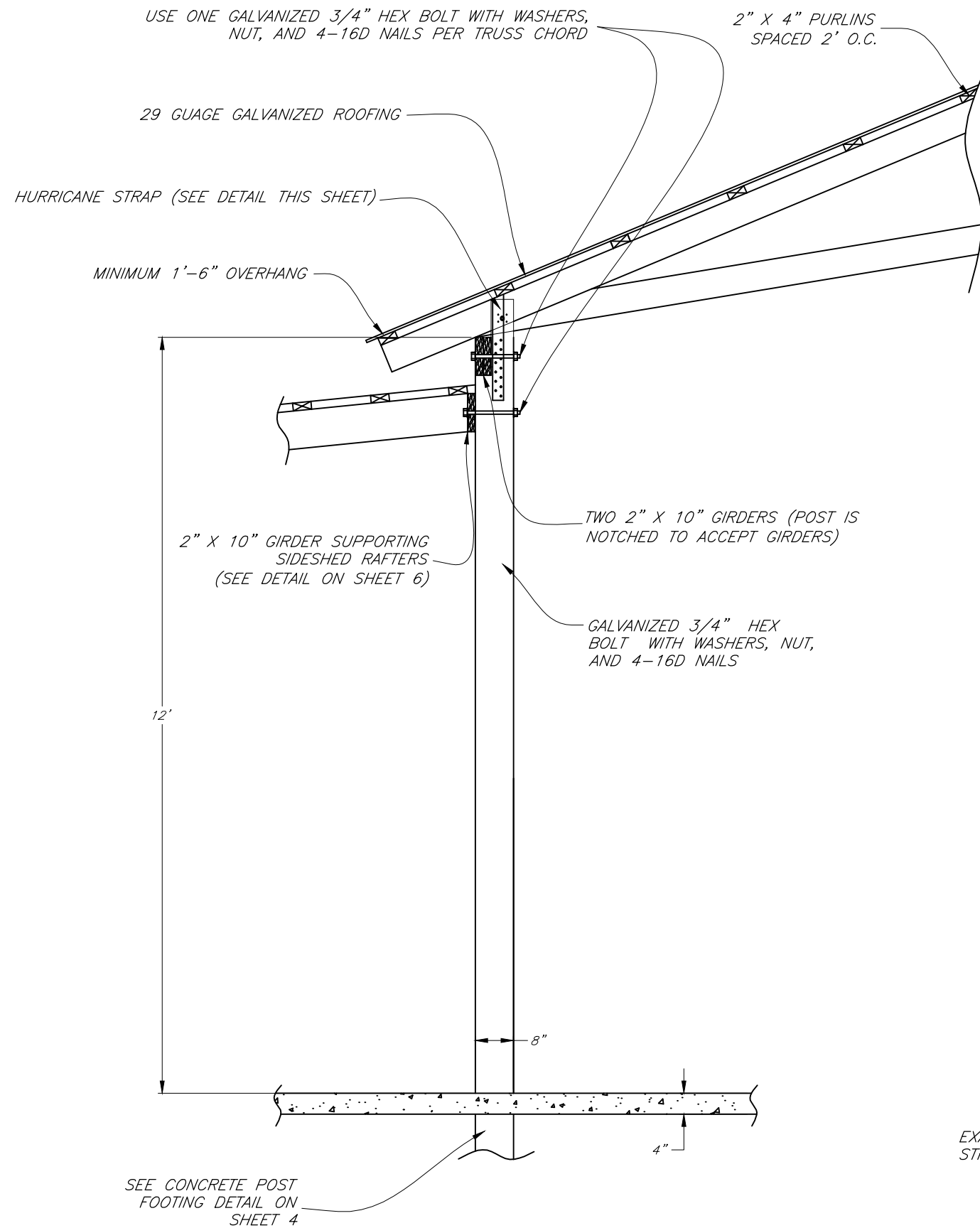
GEORGIA COMPOST FACILITY  
(20-Foot Side Shed Composting Facility)



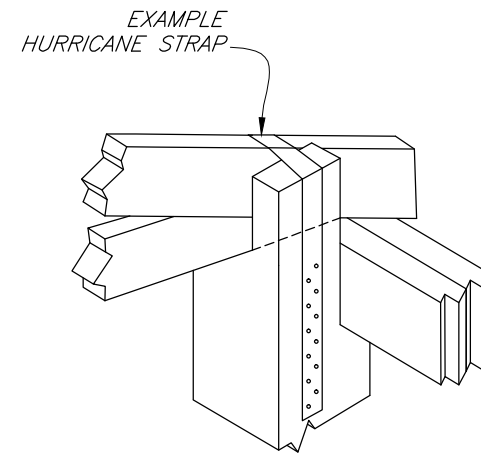
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Drawing No.  
Side

July 2013  
Sheet 4 of 6



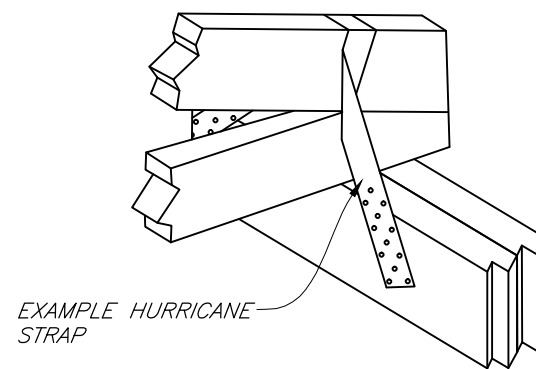
### GIRDER TO POST CONNECTION



#### NOTE:

1. USE HURRICANE STRAP AT POST TO TRUSS CONNECTION AS SHOWN AT LEFT.
2. MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS.
3. MINIMUM UPLIFT RESISTANCE IS 2334 LBS.
4. INSTALL STRAPS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. BOLTS NOT SHOWN FOR CLARITY.

### HURRICANE STRAP (WITH POST)



#### NOTE:

1. USE MANUFACTURED HURRICANE STRAPS AT TRUSS TO GIRDER CONNECTIONS.
2. MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS.
3. MINIMUM UPLIFT RESISTANCE IS 1001 LBS.
4. EXAMPLE HURRICANE STRAP IS SHOWN AT LEFT.
5. INSTALL STRAPS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

### HURRICANE STRAP (WITHOUT POST)

## 8" X 8" POST CONNECTION DETAILS

REVISIONS			
DATE	APPROVED	TITLE	
08/05	H. MCFARLAND	STATE ENGINEER	
10/07	H. MCFARLAND	STATE ENGINEER	
07/13	D. ROBERTS	ACTING STATE ENGINEER	

Designed	W. Brown	Date	07/07
Drawn	S. Rogers		10/07
Checked	H. McFarland		07/07
Approved	J. Holloway		10/07

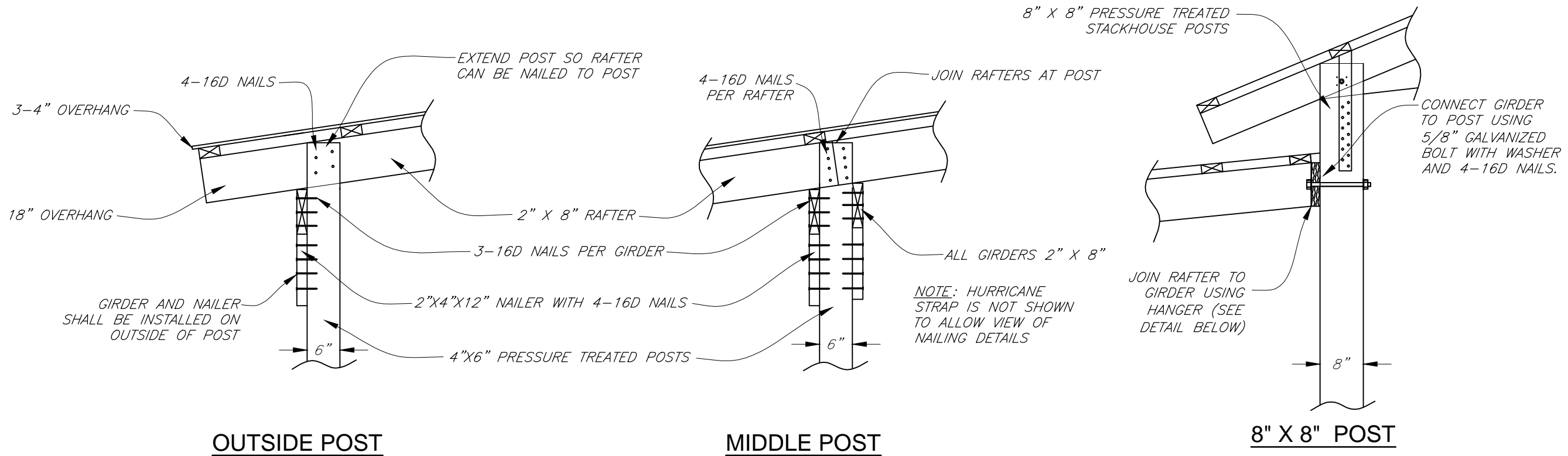
GEORGIA COMPOST FACILITY  
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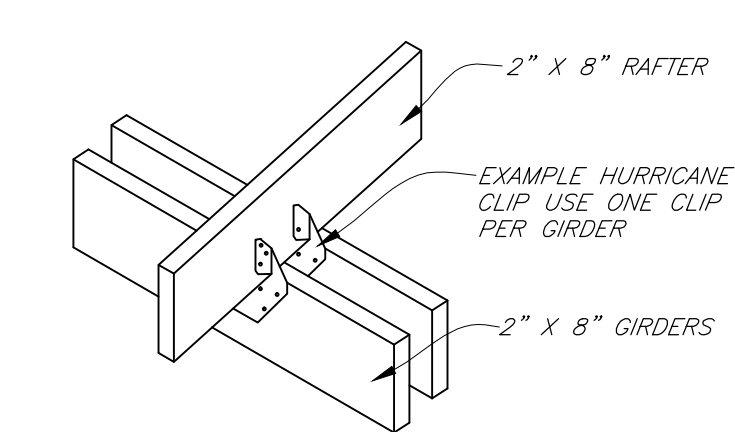
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Drawing No.  
Sidewall

July 2013  
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## GIRDER AND RAFTER TO POST CONNECTIONS

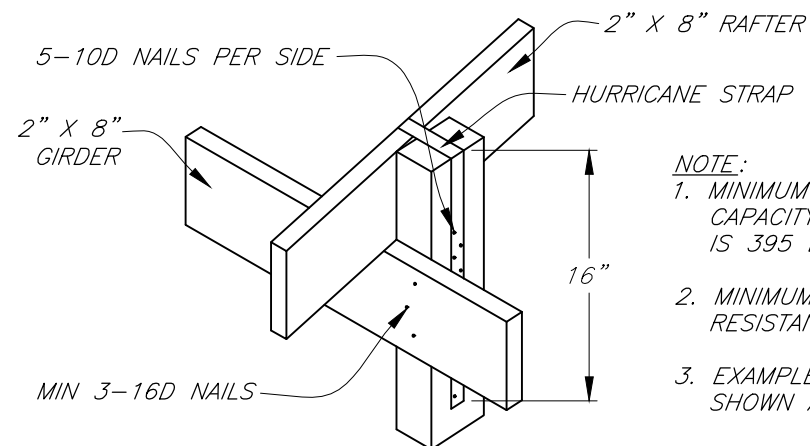


### HURRICANE CLIP WITHOUT POSTS

USE AT ALL RAFTER TO GIRDER CONNECTIONS WITHOUT POSTS

#### NOTE:

1. MINIMUM UPLIFT RESISTANCE FOR HURRICANE STRAP AT RAFTER TO POST CONNECTIONS IS 1054 LBS. STRAP SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER TO RAFTER BUTT JOINTS ON CENTER POSTS.
2. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS).
3. MINIMUM UPLIFT RESISTANCE IS 496 LBS PER CLIP.
4. AN EXAMPLE IS SHOWN AT LEFT. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS
6. ONLY ONE CLIP NECESSARY ON OUTSIDE GIRDER.

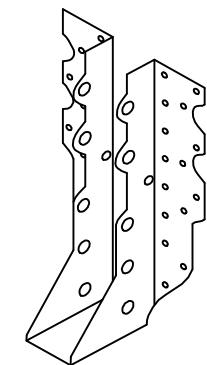


### HURRICANE STRAP

USE AT RAFTER TO GIRDER CONNECTIONS WITH POSTS

#### NOTE:

1. MINIMUM REQUIRED CAPACITY FOR HANGER IS 395 LBS.
2. MINIMUM UPLIFT RESISTANCE IS 376 LBS.
3. EXAMPLE HANGER IS SHOWN AT RIGHT.
4. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
5. MANUFACTURER'S SPECIFICATIONS SHALL BE PROVIDED TO NRCS.



### RAFTER HANGER

## SIDESHED POST CONNECTION DETAILS

REVISIONS		
DATE	APPROVED	TITLE
08/05	H. MCFARLAND	STATE ENGINEER
10/07	H. MCFARLAND	STATE ENGINEER
07/13	D. ROBERTS	ACTING STATE ENGINEER

Designed	W. Brown	Date	07/07
Drawn	S. Rogers		10/07
Checked	H. McFarland		07/07
Approved	J. Holloway		10/07

GEORGIA COMPOST FACILITY  
(20-Foot Side Shed Composting Facility)



File No.  
ga-eng-316-c8\_rev\_072013

Drawing No.  
Sideshed Details

July 2013  
Sheet 6 of 6